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PATENT
10/655,345

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:
McDaniel, C. Steven

Serial No. 10/655,345

Filed: September 4, 2003

For: Biological Active Coatings Components, Coatings, and Coated Surfaces

Group Art Unit: 1645
Examiner: Not Yet Assigned

Atty. Dkt. No. RACT-00200

I hereby certify that this correspondence is being deposited with the U.S. Postal Service as Express Mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313, on the date indicated below:

11/22/2004
Date

Michelle S. Kuhn

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313

Sir:

Applicant requests consideration of ☒ the references listed on the attached Form PTO-1449 and/or ☐ the additional information identified below in paragraph 3. Pursuant to the revisions made to 37 CFR 1.98, copies are only provided for any foreign or non-patent art.

1. This Information Disclosure Statement is submitted:

a. ☐ within 3 months of the filing date of a national application other than a continued prosecution application under § 1.53(d);
☐ within 3 months of the date of entry of the national stage as set forth in § 1.491 in an International application;
☒ before the mailing date of a first Office Action on the merits; or
☐ before the mailing of a first Office Action after the filing of a request for continued examination under § 1.114.

b. ☐ after the events of above paragraph 1a and prior to the mailing date of a final Office Action or Notice of Allowance, and thus: ☐ the certification of paragraph 2 below is provided, or ☐ a fee of $180.00 is enclosed.

c. ☐ after the mailing date of a final Office Action or a Notice of Allowance and prior to payment of the issue fee, and thus: the certification of paragraph 2 below is provided and a fee of $180.00 is enclosed.

2. It is hereby certified:

☐ that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Statement, or

☒ that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in § 1.56 (c) more than three months prior to the filing of the Statement.

3. ☐ Consideration of the following additional information (including any co-pending or abandoned U.S. applications, prior uses and/or sales, etc.) is requested:

4. For each non-English language reference listed on the attached Form PTO-1449:

☐ reference is made to an English language translation submitted herewith, and/or

☐ reference is made to a foreign patent office search report (in the English language) submitted herewith, and/or

☐ reference is made to an English language translation of a foreign patent office search report submitted herewith, and/or

☐ reference is made to the concise explanation contained in the specification of the present application at page(s) _____, and/or

☐ reference is made to the concise explanation set forth below:

5. ☐ Applicant also offers the following comments for the Examiner's consideration:

6. ☐ Also enclosed is a copy of a foreign search report citing these references.

7. ☐ The listed documents were brought to the attention of the Applicant(s) after payment of the issue fee in the captioned case. The documents were cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. Applicant(s) request this Information Disclosure Statement and attached Form PTO-1449 be placed in the file of the captioned application.

8. ☒ Applicant(s) requests that the Information Disclosure Statement and attached Form PTO-1449 and references, which are being filed before the grant of the patent and pursuant to 37 C.F.R. § 1.97(i), be placed in the file of the captioned application.

The Commissioner is hereby authorized to charge all fees to McDaniel & Associates P.C. Deposit Account No. 50-1085 for any outstanding fees that may be due in filing these documents.

Respectfully submitted,

McDaniel & Associates

DATE: 11.15.04

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Form PTO-1449 (modified) List of Patents and Publications For Applicant's Information Disclosure Statement (Use several sheets if necessary)	ATTY. DKT. NO. RACT-00200 APPLICANT: McDaniel FILING DATE: September 4, 2003	SERIAL NO. 10/655,345 GROUP: 1645

U.S. PATENT DOCUMENTS

EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
		US 2002/0106361 A1	8/8/2002	Composition	424/94.4		11/30/2001
		5,482,996	1/9/1996	Protein Containing polymers and a method of synthesis of protein-containing polymers in organic solvents	525/54.1		12/8/1993
		5,484,728	1/16/1996	Parathion hydrolase analogs and methods for production and purification	435/196		11/1/1994
		5,589,386	12/31/1996	Hydrolysis of cholinesterase inhibitors using parathion hydrolase	435/262.5		2/17/1989
		5,928,927	7/27/1999	Enzymatic detoxification or organophosphorus compounds	435/196		2/6/1997
		6,291,200	9/8/2001	Enzyme-containing polymeric sensors	435/20		11/17/1999

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		LAMBOURNE, R. ed. et al. Paint and Surface Coatings, Theory and Practice, 2nd Ed, 1999. 2-3, 10, 24, 51, 162, 193-194, 371-383, 397, 448, 494-497, 533, 541-547, 700.
		DREVON G. et al. High-Activity Enzyme Polyurethane Coatings, *Biotechnology and Bioengineering* 2002, Vol. 79, No. 7, 785-794.
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		RAININA, E. et al. The development of a new biosensor based on recombinant E. coli for the direct detection of organophosphorus neurotoxins. *Biosensors & Bioelectronics 11, (10)*. 991-1000. 1996.
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		CHENG, T. et al. . Alteromonas prolidase for organophosphorus G-agent decontamination. *Chemico-Biological Interactions 119-120*, 455-462. 1999.
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		PETRIKOVICS, I. et al. Long circulating liposomes encapsulating organophosphorus acid androlase in diisopropylflurorophosphate antagonism. *Toxicological Sciences 57.* 16-21. 2000.
		ASTM D 5589-97. Standard test method for determining the resistance of paint films and related coatings to algal defacement. ASTM International.
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		ASTM D 3623 – 78a. Standard test method for testing antifouling panels in shallow submergence. ASTM International.
		ASTM D 4610-98. Standard guide for determining the presence of and removing microbial (fungal or algal) growth on paint and related coatings. ASTM International.
		ASTM D 4938-89. Standard test method for erosion testing of antifouling paints using high velocity water. ASTM International.
		ASTM D 4939-89. Standard test method for subjecting marine antifouling coating to biofouling and fluid shear forces in natural seawater. ASTM International.
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		ASTM D 5479-94. Standard practice for testing biofouling resistance of marine coatings partially immersed. ASTM International.
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		ASTM D 964-65. Standard Specification for copper powder use in antifouling paints. ASTM International.

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		ASTM D 2574-97. Standard test method for resistance of emulsion paints in the container to attack by microorganisms. ASTM International.
		ASTM D 3274- 95. Standard test method for evaluating degree of surface disfigurement of paint films by microbial (fungal or algal) growth or soil and dirt accumulation. ASTM International.
		ASTM D 3273-94. Standard test method for resistance to growth of mold on the surface of interior coatings in an environmental chamber. ASTM International.
		ASTM D 3456-86. Standard practice for determining by exterior exposure tests the susceptibility of paint films to microbiological attack. ASTM International.

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